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A unique approach to sensorless control and regulator design of electric drives Based on the author's vast industry experience and collaborative works with other industries, Control of Electric Machine Drive Systems is packed with tested, implemented, and verified ideas that engineers can apply to everyday problems in the field. Originally published in Korean as a textbook, this highly practical updated version features the latest information on the control of electric machines and apparatus, as well as a new chapter on sensorless control of AC machines, a topic not covered in any other publication. The book begins by explaining the features of the electric drive system and trends of development in related technologies, as well as the basic structure and operation principles of the electric machine. It also addresses steady state characteristics and control of the machines and the transformation of physical variables of AC machines using reference frame theory in order to provide a proper foundation for the material. The heart of the book reviews several control algorithms of electric machines and power converters, explaining active damping and how to regulate current, speed, and position in a feedback manner. Seung-Ki Sul introduces tricks to enhance the control performance of the electric machines, and the algorithm to detect the phase angle of an AC source and to control DC link voltages of power converters. Topics also covered are: Vector control Control algorithms for position/speed sensorless drive of AC machines Methods for identifying the parameters of electric machines and power converters The matrix algebra to model a three-phase AC machine in d-q-n axes Every chapter features exercise problems drawn from actual industry experience. The book also includes more than 300 figures and offers access to an FTP site, which provides MATLAB programs for selected problems. The book's practicality and realworld relatability make it an invaluable resource for professionals and engineers involved in the research and development of electric machine drive business, industrial drive designers, and senior undergraduate and graduate students. To obtain instructor materials please send an email to pressbooks@ieee.org To visit this book's FTP site to download MATLAB codes, please click on this link: ftp://ftp.wiley.com/public/sci_tech_med/electric_machine/ MATLAB codes are also downloadable from Wiley Booksupport Site at <http://booksupport.wiley.com>

This book offers a comprehensive introduction to the subject of control engineering. Both continuous- and discrete-time control systems are treated, although the emphasis is on continuous-time systems. A chapter each is devoted to in-depth analysis of non-linear control systems, control system components, and optimal control theory. The book also introduces students to the modern concepts of neural fuzzy and adaptive learning systems.

Handbook of Interdisciplinary Treatments for Autism Spectrum DisorderSpringer

Aimed at parents of and advocates for special needs children, explains how to develop a relationship with a school, monitor a child's progress, understand relevant legislation, and document correspondence and conversations.

The International Style project was initiated 18 June 1930 with Henry-Russell Hitchcock and Philip Johnson's plan to write a popular book on modern architecture. With the support of The Museum of Modern Art, a proposal for an exhibition

grew out of the project. It was first envisioned as a show of architectural models and was greatly influenced by Johnson and Hitchcock's travels during the summer of 1930. During the sojourn the coauthors saw most of the work and met many of the architects who would be included in their MoMA survey. Modern Architecture -- International Exhibition, opened 9 February 1932.

Political protests against neoliberal globalisation, corporate power and the inequities of contemporary capitalism are increasing all the time. Demonstrations in Seattle, Prague, Genoa and elsewhere have fuelled the debate on the possibility of a radically different future. This book is a collection of essays from some of the world's leading Marxist economists on the problems of globalisation and the evolution of modern capitalism. With contributions from Suzanne de Brunhoff, Ellen Meiksins Wood, Ben Fine, Simon Clarke, John Holloway and John Weeks among others, it provides a cohesive critique of the weaknesses of the existing system and puts forward a new agenda for anti-capitalist thought and action. Covering key issues such as globalisation, the nation state, money and finance, conflict and war, technological change, the environment, class struggle, economic crisis, capitalism in the Third World, the collapse of the USSR, and the transcendence of capitalism, this is an ideal introduction to some of the most pressing problems of our time.

This book vividly illustrates the ways in which buildings designed by many of Germany's most celebrated twentieth century architects were embedded in widely held beliefs about the power of architecture to influence society. German Architecture for a Mass Audience also demonstrates the way in which these modernist ideas have been challenged and transformed, most recently in the rebuilding of central Berlin.

Water Is The Most Critical Resource For The Long-Term Sustainable Development Of The Middle East. This Book Will Be Of Direct Interest To Anyone Interested In The Management Of International Waters.

A creative journal designed by psychotherapist, Sue Patton Thoele, this book combines inspiration, courage and constancy with an interactive growth experience. The author mixes quotes from her books with lessons and exercises to guide the private words and thoughts of readers.

Wrightslaw Special Education Legal Developments and Cases 2019 is designed to make it easier for you to stay up-to-date on new cases and developments in special education law. Learn about current and emerging issues in special education law, including: * All decisions in IDEA and Section 504 ADA cases by U.S. Courts of Appeals in 2019 * How Courts of Appeals are interpreting the two 2017 decisions by the U.S. Supreme Court * Cases about discrimination in a daycare center, private schools, higher education, discrimination by licensing boards in national testing, damages, higher standards for IEPs and "least restrictive environment" * Tutorial about how to find relevant state and federal cases using your unique search terms

This handbook examines the medical and therapeutic needs of individuals with autism spectrum disorder (ASD) and the effectiveness of treatments that are delivered through interdisciplinary teams. It analyzes the impact of interdisciplinary teams on

assessment, diagnosis, treatment planning, and implementation and explores how evidence-based treatments can be developed and implemented. Chapters describe the wide-ranging effects of ASD and the challenges individuals and their family members face when seeking treatment. In addition, chapters provide an overview of the comorbidities and related disorders that often accompany ASD, including neurodevelopmental disorders, medical and behavioral problems, and psychopathology. The handbook also discusses the critical importance of caregivers in the treatment team as experts in their child's strengths, problem areas, and functioning. Topics featured in this handbook include: Legal considerations in interdisciplinary treatments. Ethical considerations in the development and implementation of interdisciplinary teams. Evidence-based interdisciplinary treatment and evaluation considerations. The role of primary care physicians and subspecialty pediatricians within interdisciplinary teams. The impact of school psychologists related to assessment and intervention development. Vocational interventions that promote independence in individuals with ASD. The Handbook of Interdisciplinary Treatments for Autism Spectrum Disorder is a must-have resource for researchers, clinicians and professionals, and graduate students across such interrelated disciplines as clinical child, school, and developmental psychology, child and adolescent psychiatry, social work, rehabilitation medicine/therapy, pediatrics, and special education.

Most conventional cryogenic refrigerators and liquefiers operate with pure fluids, the major exception being natural gas liquefiers that use mixed refrigerant processes. The fundamental aspects of mixed refrigerant processes, though very innovative, have not received the due attention in open literature in view of commercial interests. Hundreds of patents exist on different aspects of mixed refrigerant processes. However, it is difficult to piece together the existing information to choose an appropriate process and an optimum composition or a given application. The aim of the book is to teach (a.) the need for refrigerant mixtures, (b.) the type of mixtures that can be used for different refrigeration and liquefaction applications, (c.) the different processes that can be used and (d.) the methods to be adopted for choosing the components of a mixture and their concentration for different applications.

Media expansion into the digital realm and the continuing segregation of users into niches has led to a proliferation of cultural products targeted to and consumed by women. Though often dismissed as frivolous or excessively emotional, feminized culture in reality offers compelling insights into the American experience of the early twenty-first century. Elana Levine brings together writings from feminist critics that chart the current terrain of feminized pop cultural production. Analyzing everything from Fifty Shades of Grey to Pinterest to pregnancy apps, contributors examine the economic, technological, representational, and experiential dimensions of products and phenomena that speak to, and about, the feminine. As these essays show, the imperative of productivity currently permeating feminized pop culture has created a generation of texts that speak as much to women's roles as public and private workers as to an impulse for fantasy or escape. Incisive and compelling, Cupcakes, Pinterest, and Ladyporn sheds new light on contemporary women's engagement with an array of media forms in the context of postfeminist culture and neoliberalism.

Offers the poet and journalist's political and impressionistic essays for the first time in English, providing a glimpse into the social

and political environment of the Weimar Republic.

Published in association with the BACUP, this textbook provides the required knowledge for counselling skills qualifications. The book relates to the activity of counselling skills and addresses the context and roles in which these skills are used. Each chapter of the book contains information and practical activities which are designed to test knowledge. The book offers comprehensive coverage of the following areas: ? Ethics and processes, including the description of the difference between counselling skills and counselling. ? Life stages. ? Theoretical perspectives. ? Values, attitudes and beliefs. ? Listening skills. ? Settings. ? Bullying and harassment. ? Mentoring. The book is ideal for students on counseling skills courses and those using counseling skills in a variety of different environments.

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